

April 9, 2019

Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street S.W., Room TW-A325
Washington, DC 20554

Re: *Ligado Network Subsidiary LLC, Amendment to License Modification Applications, IBFS File Nos. SAT-AMD-20180531-00045, SAT-AMD-20180531-00044, SES-AMD-20180531-00856; SES-MOD-20151231-00981, SAT-MOD-20151231-00090, and SAT-MOD-20151231-00091; IB Docket Nos. 12-340, 11-109*

Dear Ms. Dortch:

Pursuant to Section 1.1206 of the Commission's rules,¹ this letter provides notice that on April 5, 2019, Iridium Communications Inc. (Iridium), represented by Maureen C. McLaughlin, Vice President, Public Policy, and the undersigned met with Commissioner Geoffrey Starks and Randy Clarke, Legal Advisor to Commissioner Geoffrey Starks. During this meeting, Iridium discussed its latest business development plans, including the completion of Iridium® NEXT and the launch of the Iridium CertusSM service; Iridium's role in disaster recovery; Aireon; IoT; Iridium in the Arctic; and reiterated the topics covered by Iridium's past filings regarding Ligado's proposed terrestrial operations in the above referenced proceedings. The slides presented at the meeting are attached to this filing.

Please direct any questions concerning this submission to the undersigned.

Sincerely,

/s/ Bryan N. Tramont
Bryan N. Tramont
Counsel to Iridium Communications Inc.

Attachment

cc: Commissioner Geoffrey Starks
Randy Clarke

¹ 47 C.F.R § 1.1206.



Introduction to Iridium Communications



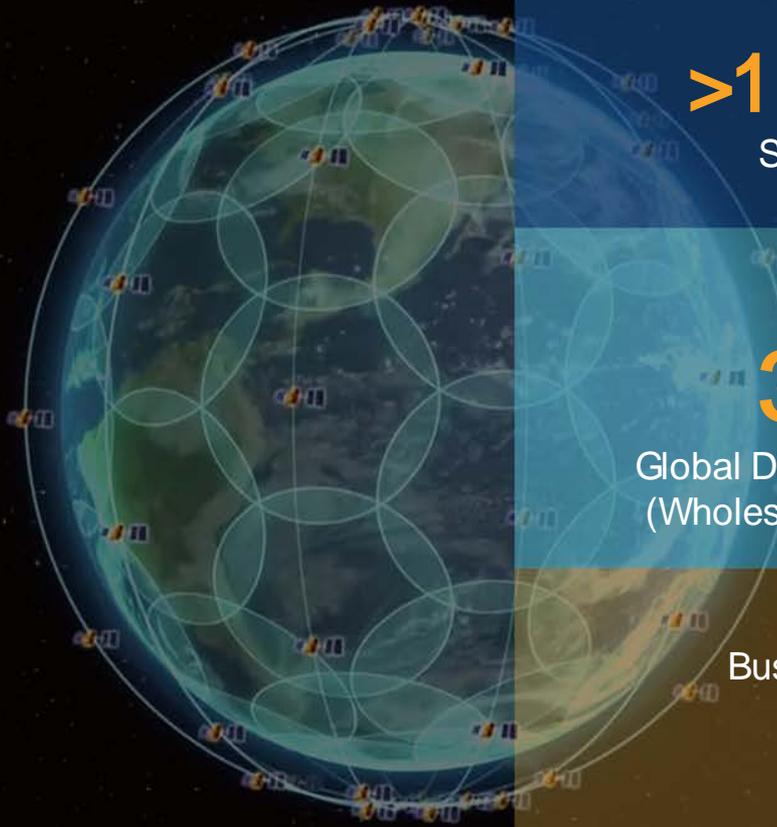


AGENDA

- Introduction to Iridium
- Iridium NEXT
- Iridium Certus Service
- Aireon
- Disaster Recovery
- IOT
- Polar Use and Climate Research
- L-Band Spectrum Threat

Iridium is the only fully global provider of **mobile voice & data services.**

Our network connects vital services using just 8.725 MHz of spectrum and 75 in-orbit satellites.



Serving
>1 million
Subscribers

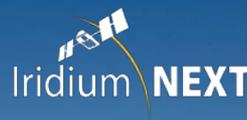
Backed by
300+
Global Distribution Partners
(Wholesale-only Business)

Business Lines:
Land Mobile
Maritime
Aviation
IOT
Government

A NEW ERA for Global Connectivity

On **January 11, 2019**, a flight-proven SpaceX Falcon 9 rocket launched from Vandenberg Air Force Base and delivered the final **10 Iridium® NEXT satellites** to LEO.

This was the **largest satellite constellation replacement ever.**



HOW IRIDIUM Innovation...

“It has been an honor to deliver 75 new Iridium NEXT satellites to orbit. Matt and the entire Iridium NEXT team have been incredible to work with. On behalf of all of our employees, congratulations to Iridium on achieving this incredible milestone.”

- [SpaceX COO, Gwynne Shotwell](#)

“There are few words to describe what it feels like to complete a vision started many years ago when I joined the company and what it means for Iridium and our future.”

- [Iridium CEO Matt Desch](#)



SPACE.com @SPACEdotcom - Jan 18
In Photos: [SpaceX Falcon 9 Rocket Launches the Last Iridium Next Communications Satellites](#) goo.gl/3AMA29



31 106

SpaceX @SpaceX - Jan 11
Falcon 9 launches 10 new [IridiumComm](#) NEXT satellites to orbit; this was the eighth set of satellites in a series of 75 total satellites that [SpaceX](#) has launched for Iridium's next generation global satellite constellation, Iridium NEXT.



134 2.3K 13K

Matt Desch @IridiumBoss - Jan 13
Thanks for complimenting my countdown for Iridium-6, and thanks to Eric "K10" Krystkowiak from [SpaceX](#) for asking me to do it. My twitter followers here gave him the idea when you confused his voice for mine a few launches ago. If you buy 8 launches from them - you can do it too!



36 51 610

...DRIVES the Future

“Iridium Certus “will enable us to provide broadband connections to teams, vehicles and the important IoT “things” that are in the 80-plus percent of the world that lacks cellular coverage.”

- [Iridium CEO Matt Desch](#)

“Today we passed a major milestone on our journey to revolutionize air traffic surveillance and are just weeks away from a fully operational system. Now that the launches are complete, final integration and testing of the recently launched payloads can commence, after which the world's first, real-time, truly global view of air traffic will be a reality.”

- [Aireon CEO Don Thoma](#)



CBS NEWS January 16, 2019, 7:45 AM

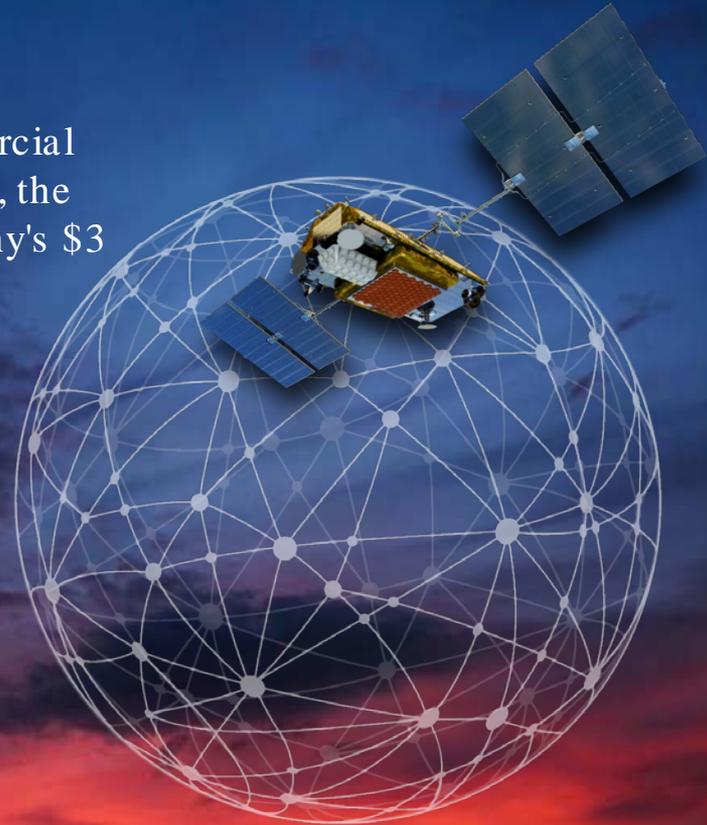
New satellite network will make it impossible for a commercial airplane to vanish



IRIDIUM CERTUSSM SERVICE

On January 16, Iridium announced the commercial launch of its Iridium Certus broadband service, the first new capability activated from the company's \$3 billion Iridium NEXT satellite replacement.

Iridium Certus is a unique platform designed for the development of specialty applications and is the world's only truly global broadband service, offering on-the-move internet and high-quality voice access. The service enables mobile office functionality for deployed teams and two-way remote communication for assets, autonomous vehicles, trains, aircraft and ships at sea.



Aireon Overview

2011

Aireon Created

Aireon was created to provide global, 100%, real-time air traffic surveillance, regardless of location

**Iridium
NEXT**

Cutting-edge constellation with Aireon's ADS-B receivers on each satellite

8 of 8

Launches Completed

Currently 66 Aireon ADS-B payloads active on orbit

25B position messages expected monthly

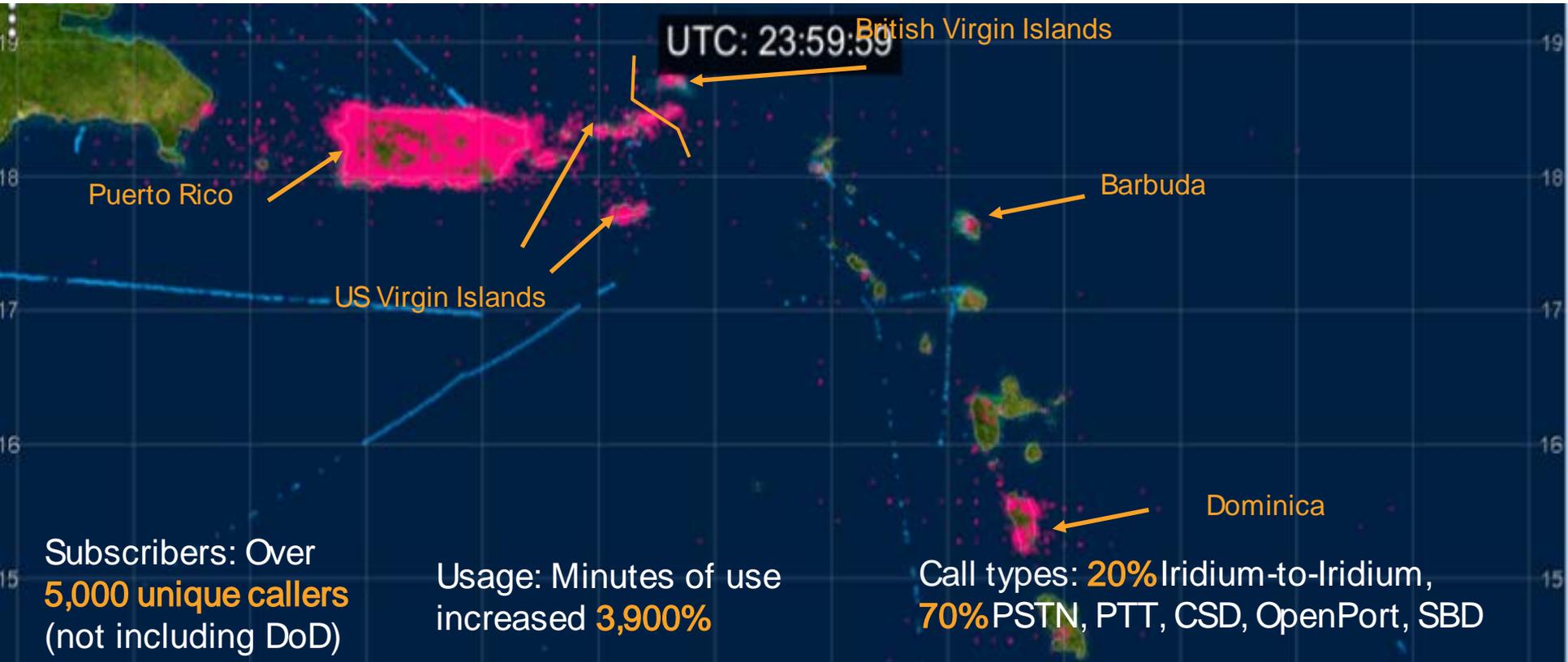
9 ANSPs

+ FAA Already Receiving Data

Edmonton airspace will "go-live" in March 2019

North Atlantic Oceanic Operational Trials Begin March 2019

Post **HURRICANE MARIA**: Iridium Use



IOT Applications: Urban & Remote Monitoring

Governments, companies and organizations use Iridium services to **track assets, monitor environmental systems and remotely manage infrastructure**—it is Iridium's fastest growing line of business with uses in urban areas, in suburbs and in rural places.



Iridium Next satellites to bring broadband IoT to every corner of the globe

Caterpillar uses Iridium solutions on over 60,000 vehicles for telematics, condition monitoring and maintenance support. Services are used in both rural urban areas and to monitor assets.

Green Bay Press Gazette.

'Smart' manholes to help find flood problems

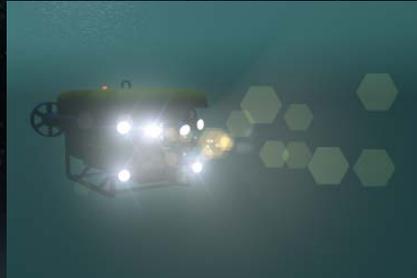
SmartCover uses Iridium to detect impending sewage system spills. Each spill costs cities \$1000s in fines and penalties; monitoring is critical for public health.

IRIDIUM in the Arctic

Iridium's global pole-to-pole coverage provides connectivity where others do not and can not and is critical to research of global phenomena like climate change.



Poaching enforcement



Mapping sea ice



Measuring polar weather



Voice & Data for Personnel

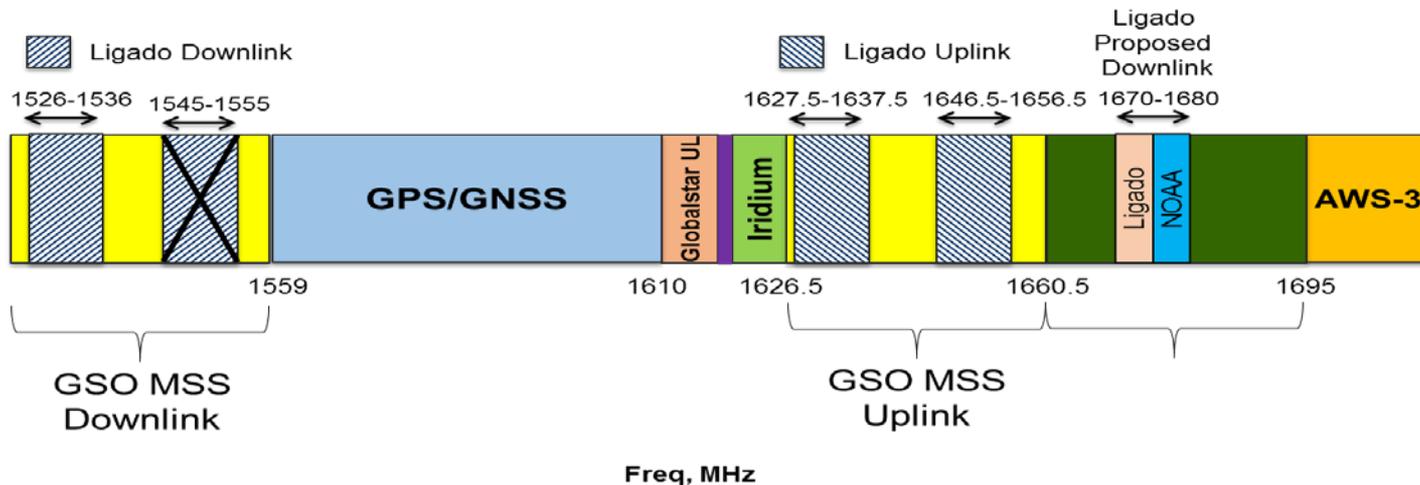


Polar Exploration



Antarctic Wildlife Monitoring

L-BAND Neighborhood



- FCC rules allow mobile satellite service spectrum holders to add a terrestrial component to their service, but that service cannot interfere with satellite neighbors - this is called the ATC Rule
- Ligado Networks (formerly Lightsquared) has applied to operate a terrestrial network in the L-band used by GPS, SATCOM providers, and weather/environmental data community

Broad Opposition to Ligado Proposal

“The [coalition] continues to have **serious unresolved concerns with Ligado’s proposed operations** ... The existing services provided by the GPS, SATCOM, aviation and real-time environmental satellite data communities, which depend upon interference-free operations in spectrum adjacent to or co-channel to spectrum central to Ligado’s plans, are too important to jeopardize, especially for the speculative benefits of Ligado’s constantly evolving proposals, details of which continue to be lacking.”

July 18, 2018 ex parte letter of Coalition of Aviation, SATCOM, and Weather Information Users

- AccuWeather
- Aviation Spectrum Resources, Inc.
- Aerospace Industries Association
- DTN (formerly Schneider Electric)
- Aircraft Owners and Pilots Association
- General Aviation Manufacturers Association
- Airlines for America
- Gogo Business Aviation
- ALERT Users Group
- Helicopter Association
- International American Geophysical Union
- International Air Transport Association
- American Weather and Climate
- Iridium Communications, Inc.
- American Meteorological Society
- Industry Association
- Lockheed Martin
- Microcom Design, Inc.
- Rockwell Collins Inc.
- Narayan Strategy
- Satelles Inc.
- National Air Transportation Association
- National Hydrologic Warning Council
- National Weather Association
- Resilient Navigation & Timing Foundation
- University of Wisconsin, Space
- National Emergency Number Association
- University of North Florida
- Science and Engineering Center

QUESTIONS?

